



The objective of this AIMI survey of New Zealand (NZ) cereal growers was to determine, as at April 1, 2020:

- *The size of the 2020 NZ harvest of wheat, barley and oats*
- *The sales channels, storage status and unsold amount of the 2020 NZ harvest*
- *The tonnages of carry-over stocks on farms from the 2019 NZ harvest*
- *NZ sowings and sowing intentions of wheat, barley and oats (both milling/malting and feed) for the autumn and winter of 2020*

Survey details

Data from 142 NZ survey farms who completed both of the last two cereal surveys (October 2019 and April 2020) were scaled up to the national level using the most recent (Provisional 2019) NZ Agricultural Production Statistics. As with all surveys, there is a margin of error which needs to be considered in relation to this report.

These figures reflect the position as at the 1st April 2020 and there will have been changes since this time.

Key Points as at 1 April 2020 (figures have been rounded to nearest 100):

- Overall, yields were up 16% compared to last season (averaged over all six crops). Less hectares were harvested than last season (6% down), and the net result was a 10% increase in total tonnage compared to last season.
- On the survey farms, the 2020 harvests of feed wheat and malting barley were 100% completed by 1 April, with milling wheat harvest 96% complete and feed barley harvest 92% complete. The harvests of milling oats and feed oats were 42% and 75% complete, respectively, by 1 April.
- Carry-over stocks (both sold and unsold) of feed wheat and feed barley were low. Unsold stocks on hand of last year's feed wheat and feed barley crops were 0.7% and 2.2% of the 2019 harvest tonnages, respectively.
- Stocks of unsold feed wheat from the current harvest are up 24% on unsold stocks at this time last year. By comparison, unsold stocks of feed barley are down 6% as compared to this time last year, while unsold stocks of milling wheat are up 20%.
- Autumn/winter sowings of feed wheat are predicted to be down by 2,200 hectares on predicted sowings a year ago, with feed barley down by 3,200 ha, milling wheat up by 1,500 ha, malting barley up 1,200 ha, milling oats up 800 ha, and feed oats down 900 ha. However, these predictions are based mostly on intentions as over all six crops, only 8% had been sown by 1 April 2020.

Milling wheat: Estimated total tonnage (109,200 t) was up 31% compared to last year's harvest (83,100 t). Of this total, 70% has been sold (76,000 t), although most of the sold grain is still stored on farm (92%). The amount of unsold grain is 33,200 tonnes (30%). There was no carryover of unsold grain from the 2019 harvest, so the estimate of unsold grain in the market is 33,200 tonnes which is higher than 2019 (27,700 t) and similar to 2018 (32,600 t), 2017 and 2016 (both 33,500 t).

Feed wheat: Estimated total tonnage (371,300 t) was up 18% compared to last year's harvest (315,600 t). Of this total, 68% has been sold (253,200 t), with 75% of the sold grain still stored on farm. The amount of unsold grain is 118,200 tonnes (32%). Unsold stock carried over from last season was 2,100 tonnes, taking the estimate of total unsold grain in the market to 120,200 tonnes which is higher than the three previous seasons (98,200 t in 2019, 96,000 t in 2018 and 91,900 t in 2017) and lower than 2016 (174,000 t).

Feed barley: Estimated total tonnage (285,200 t) was down 6% compared to last year (301,800 t). Of this total tonnage, 55% has been sold (158,200 t), with 56% of the sold grain still stored on farm. About 45% (126,900 t) remains unsold. Carryover of unsold grain was 6,700 tonnes, taking the estimate of total unsold grain in the market to 133,600 tonnes, which is slightly lower than in 2019 (142,100 t), higher than the two previous seasons (100,200 t in 2018 and 111,600 t in 2017) and lower than in 2016 (174,000 t).

For other cereals: Compared to last year, estimated total tonnages for malting barley (87,200 t) was up by 25%, milling oats (12,700 t) was down by 34%, and feed oats (7,500 t) was up by 5%. For malting barley, 5% of the total harvest was unsold, while milling oats had 1% unsold and feed oats had 16% unsold as at 1 April, 2020. There were no unsold stocks carried over from last season for malting barley, milling oats and feed oats.

Sowing intentions: Only a few autumn/winter cereal crops had been sown by 1 April 2020. For feed wheat, 13% of the planned area had been sown, while for feed barley, 3% had been sown. No milling wheat, malting barley, milling oats or feed oats had been sown.

For autumn/winter wheat and barley overall, the total area sown or intending to be sown as at 1 April 2020, was down 4% (or, down by 2,700 hectares) on sowings plus intentions as at 1 April 2019.

In more detail, feed wheat area sown or intending to be sown in the autumn/winter was down 6% (down 2,200 hectares) as compared to last year. Autumn/winter feed barley was down 18% (down 3,200 hectares), and milling wheat was up 23% (up 1,500 hectares). Autumn/winter malting barley was predicted to be up 41% (up 1,200 hectares) on last year.

Milling oats area sown or intending to be sown in the autumn/winter was up 286% (up 800 hectares), while feed oats was down 64% (down 900 hectares).

Milling Wheat (tonnes)

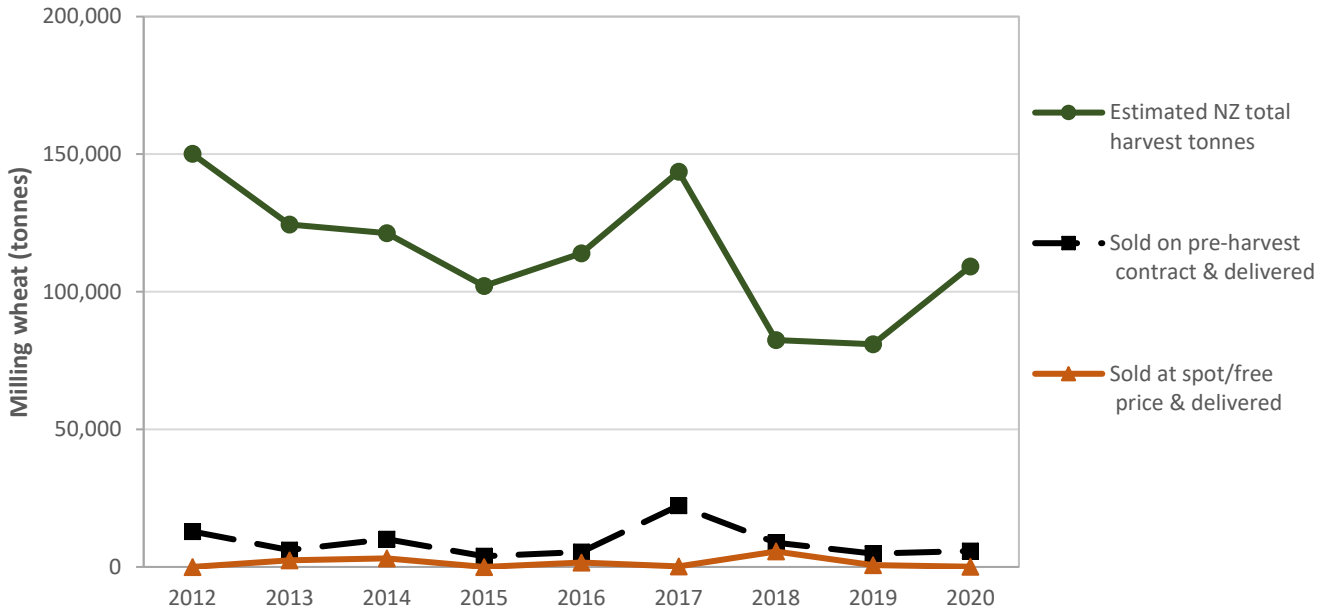


Figure 1a. NZ harvest tonnage and sales channels for milling wheat as estimated on 1 April each year. Note: Historical data for 2012 to 2019 are from April AIMI Reports for 2019 and earlier, while data for 2020 are from the current report. “Total harvest tonnes” includes harvested and unharvested grain for that season’s harvest. “Sold at spot/free price & delivered” includes grain sold for feed.

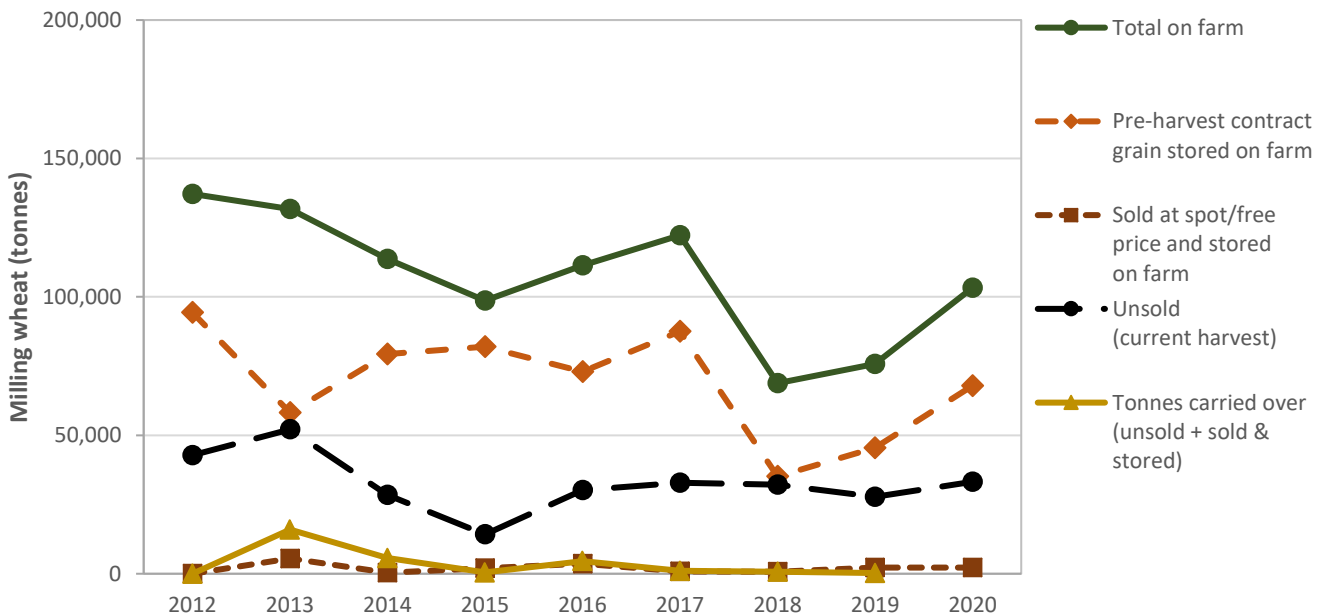


Figure 1b. NZ stock on farms for milling wheat as estimated on 1 April each year.

Note: Historical data for 2012 to 2019 are from April AIMI Reports for 2019 and earlier, while data for 2020 are from the current report. Unharvested grain is included. For the 2012 and 2013 harvests, the sales status of the unharvested grain was unknown, so it was assumed unsold. After this time, the sales status of the unharvested grain was determined and has been apportioned between “Pre-harvest contract grain stored on farm” and “Unsold”. “Tonnes carried over” is the sum of sold and unsold stock carried over (still on farm) from the previous season.

Feed Wheat (Tonnes)

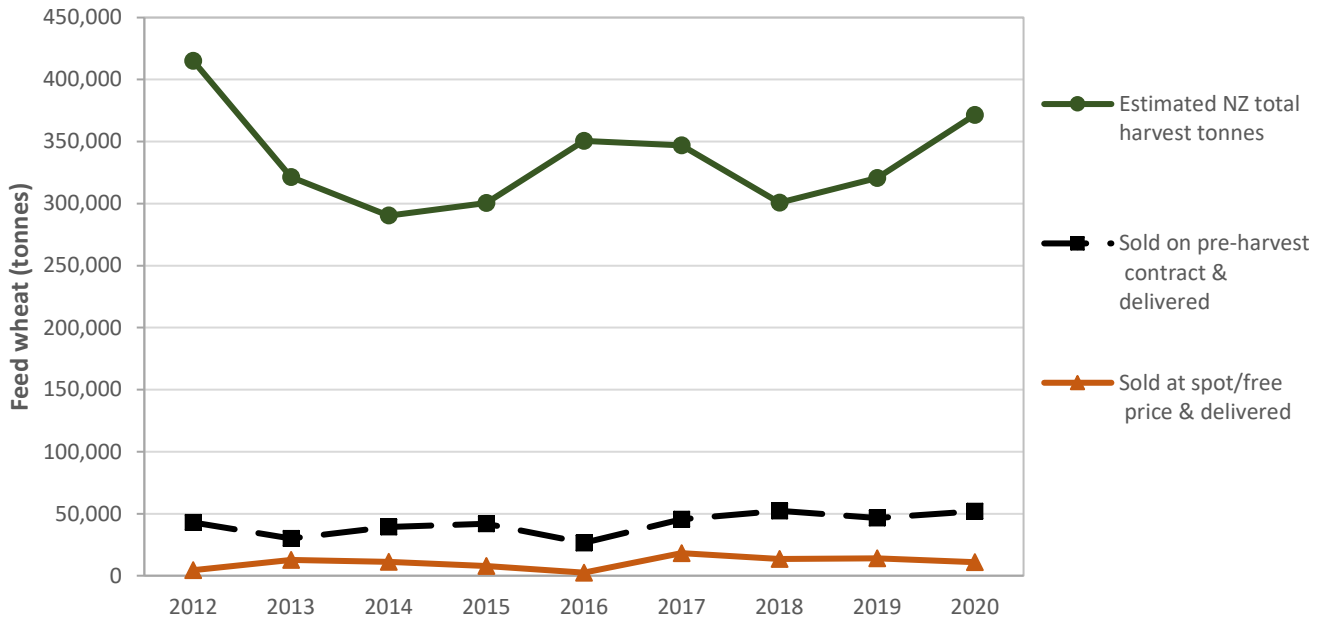


Figure 2a. NZ harvest tonnage and sales channels for feed wheat as estimated on 1 April each year.

Note: Historical data for 2012 to 2019 are from April AIMI Reports for 2019 and earlier, while data for 2020 are from the current report. “Total harvest tonnes” includes harvested and unharvested grain for that season’s harvest. “Sold at spot/free price & delivered” includes grain used on own farm.

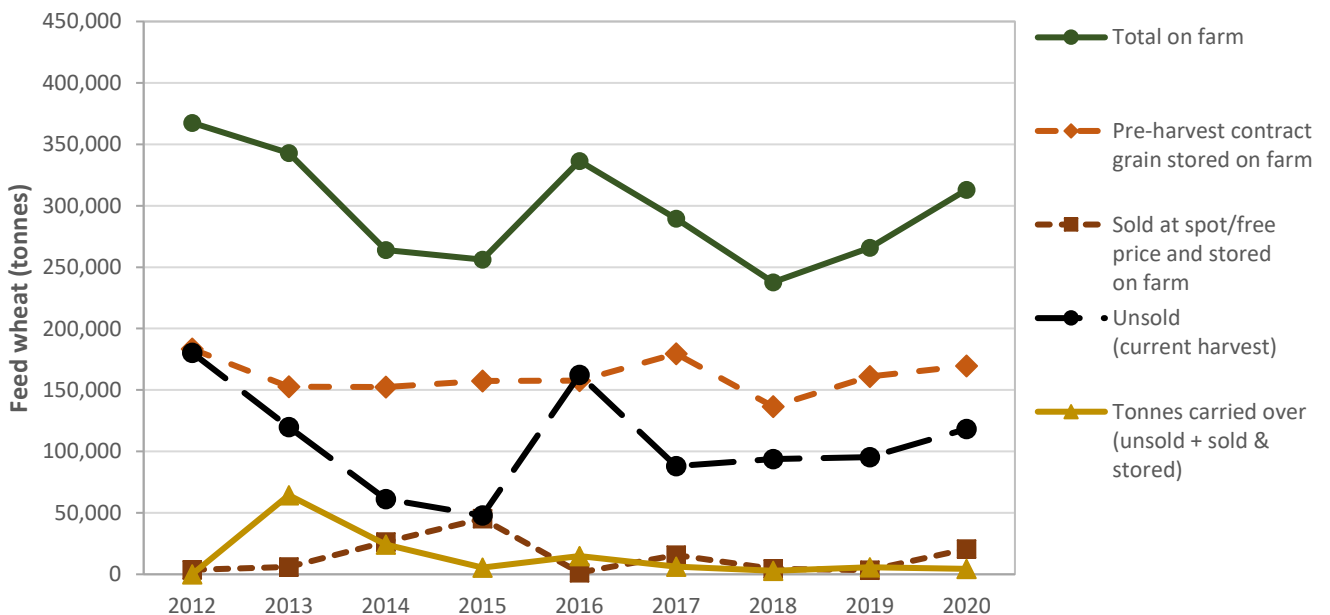


Figure 2b. NZ stock on farms for feed wheat as estimated on 1 April each year.

Note: Historical data for 2012 to 2019 are from April AIMI Reports for 2019 and earlier, while data for 2020 are from the current report. Unharvested grain is included. For the 2012 and 2013 harvests, the sales status of the unharvested grain was unknown, so it was assumed unsold. After this time the sales status of the unharvested grain was determined and has been apportioned between “Pre-harvest contract grain stored on farm” and “Unsold”. “Tonnes carried over” is the sum of sold and unsold stock carried over (still on farm) from the previous season.

Feed Barley (Tonnes)

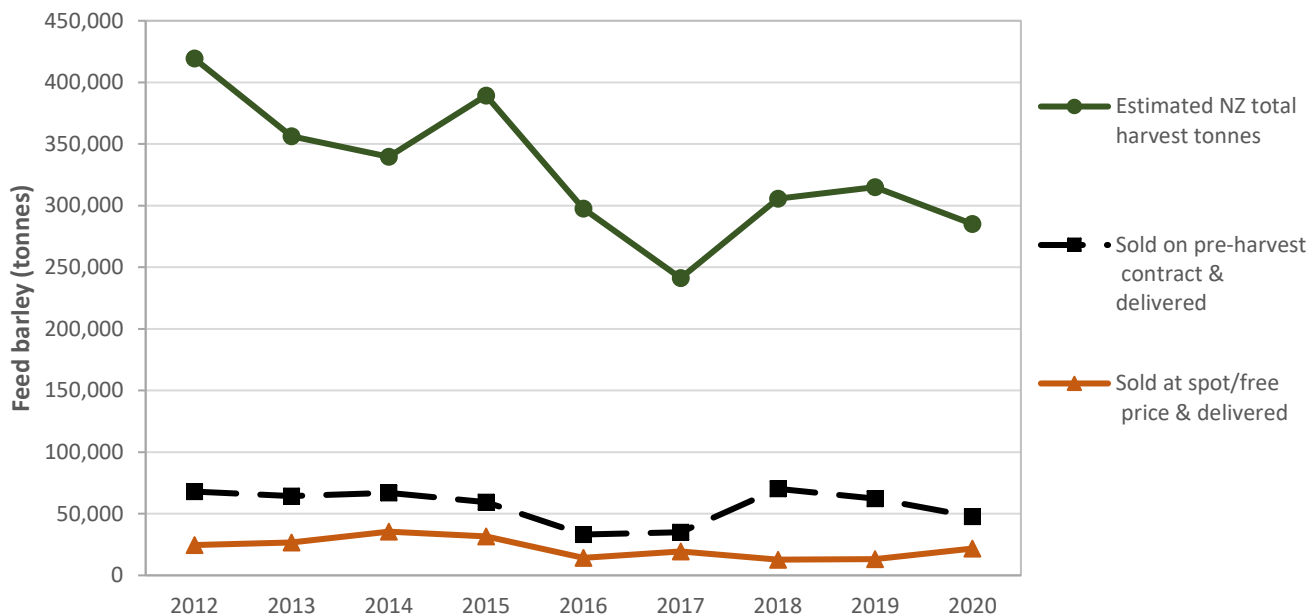


Figure 3a. NZ harvest tonnage and sales channels for feed barley as estimated on 1 April each year.

Note: Historical data for 2012 to 2019 are from April AIMI Reports for 2019 and earlier, while data for 2020 are from the current report. “Total harvest tonnes” includes harvested and unharvested grain for that season’s harvest. “Sold at spot/free price & delivered” includes grain used on own farm.

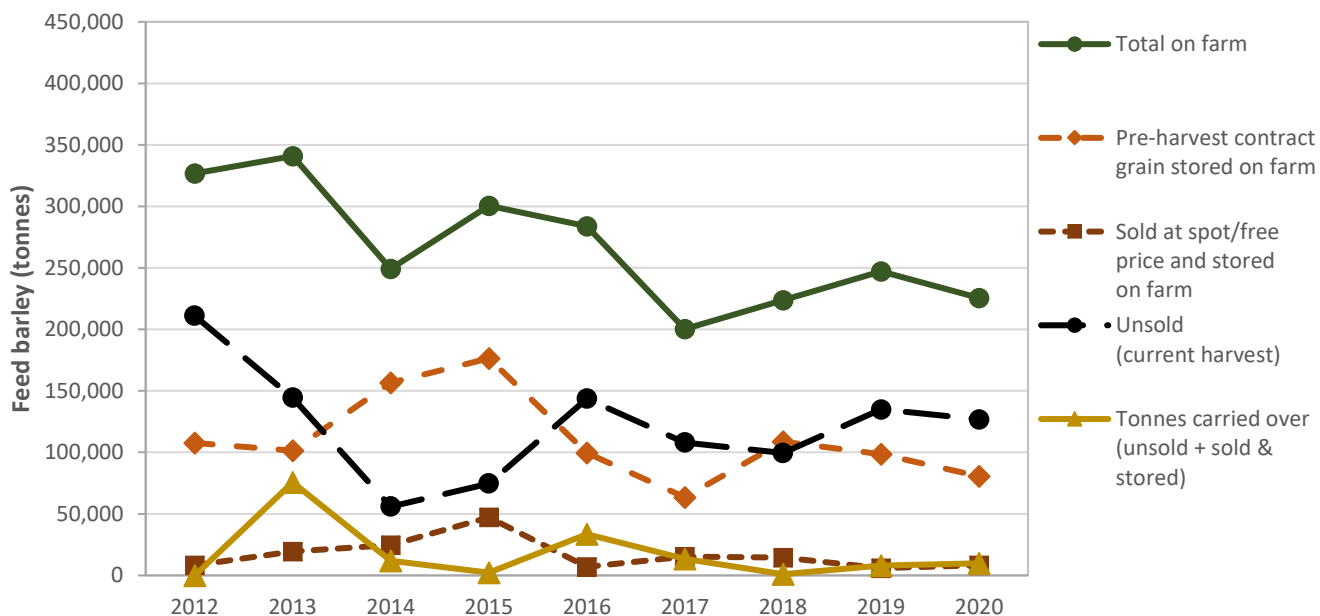


Figure 3b. NZ stock on farms for feed barley as estimated on 1 April each year.

Note: Historical data for 2012 to 2019 are from April AIMI Reports for 2019 and earlier, while data for 2020 are from the current report. Unharvested grain is included. For the 2012 and 2013 harvests, the sales status of the unharvested grain was unknown, so it was assumed unsold. After this time, the sales status of the unharvested grain was determined and has been apportioned between “Pre-harvest contract grain stored on farm” and “Unsold”. “Tonnes carried over” is the sum of sold and unsold stock carried over (still on farm) from the previous season.

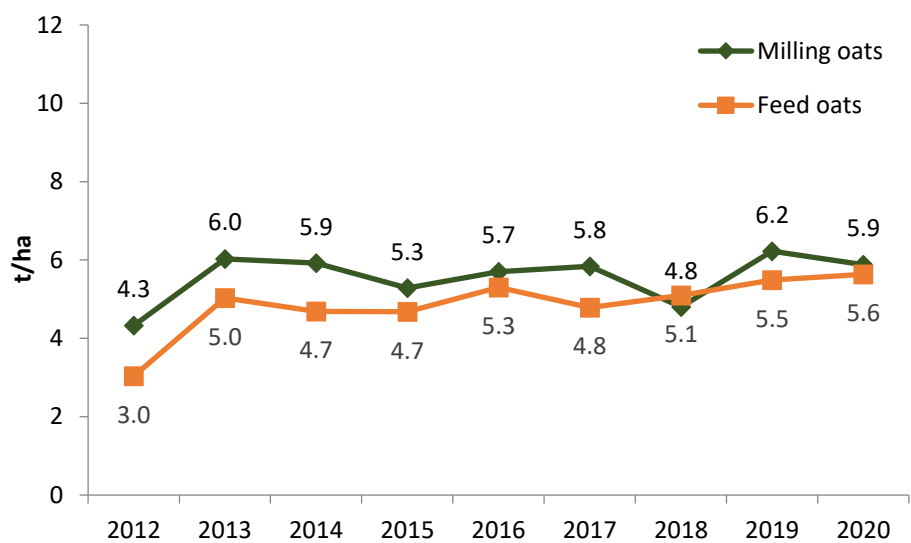
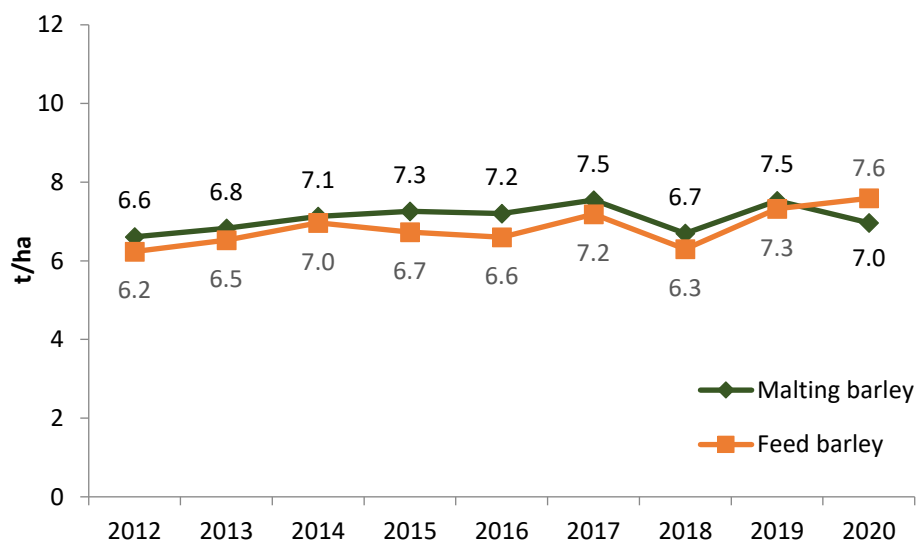
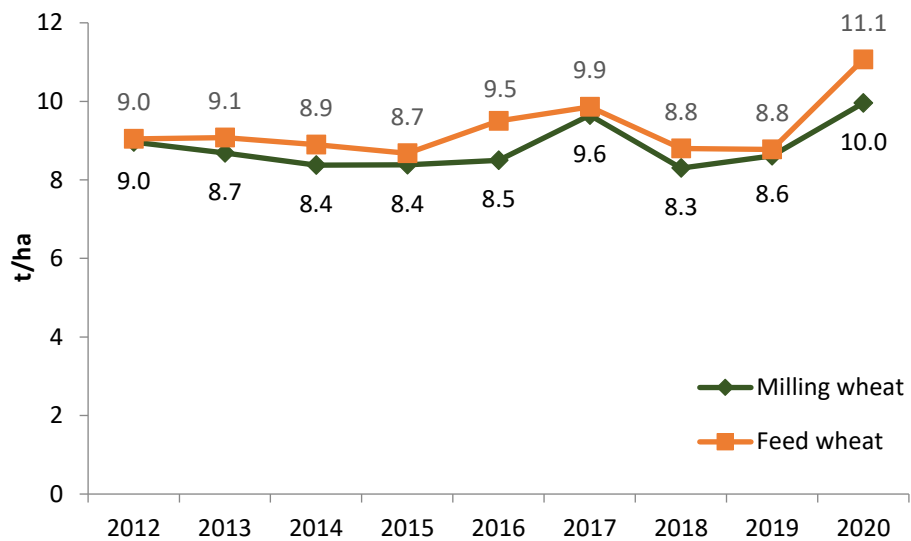


Figure 4. Comparison of yields between the 2012 to 2020 harvests for the six cereal crops. Data are from the current survey and from previous April 1 AIMI reports for 2012 to 2019. Note: Milling wheat includes biscuit and gristing varieties.

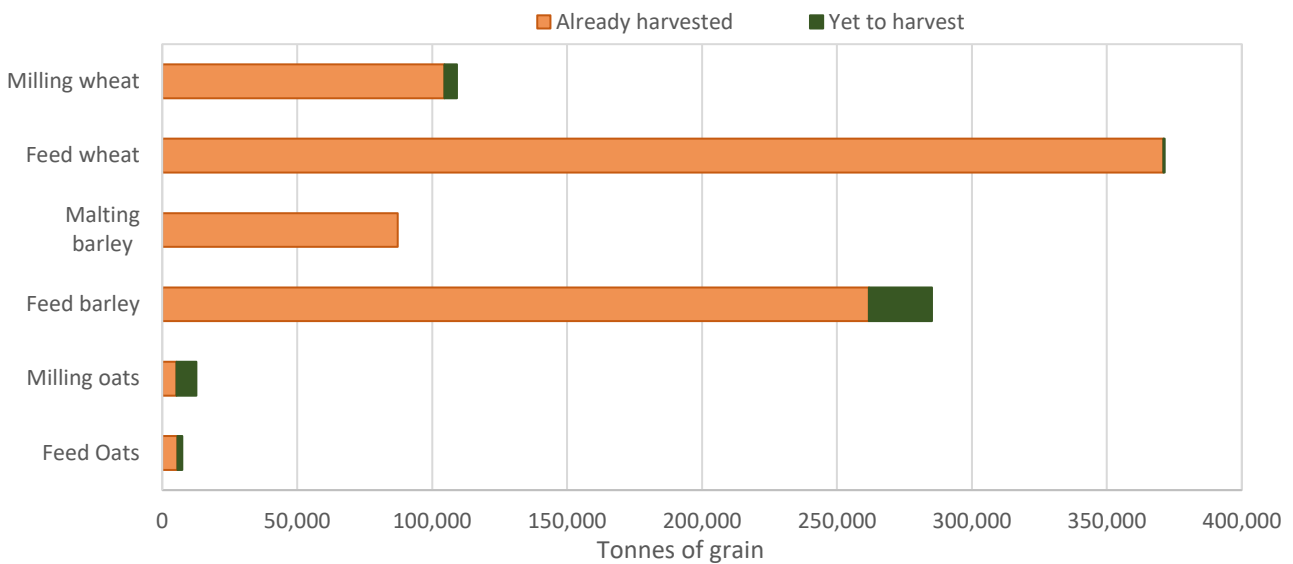


Figure 5. Estimated NZ tonnes harvested before 1 April 2020, and yet to harvest as at 1 April, 2020.

Autumn/winter sowings and sowing intentions as at 1 April each year (spring sowings not included).

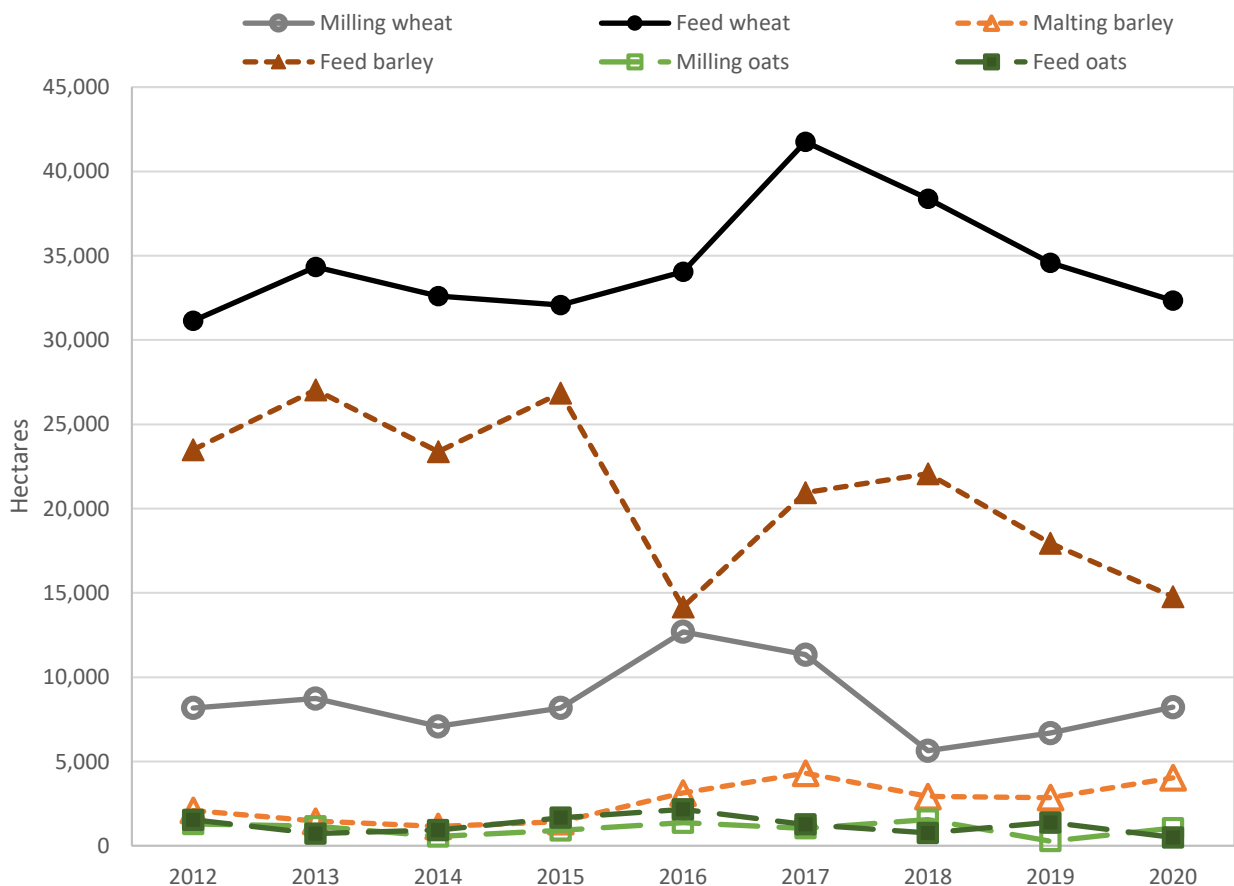


Figure 6. Estimated NZ total hectares sown or intended to be sown in autumn/winter 2020 (spring hectares not included), along with the corresponding estimates from the eight previous 1 April AIMI survey reports. Figures for 2020 are from the current report, while other figures are from previous April AIMI reports for 2012 – 2019. Note: Data are mostly intentions (see Fig. 7). This information is also presented in Table 3 below.

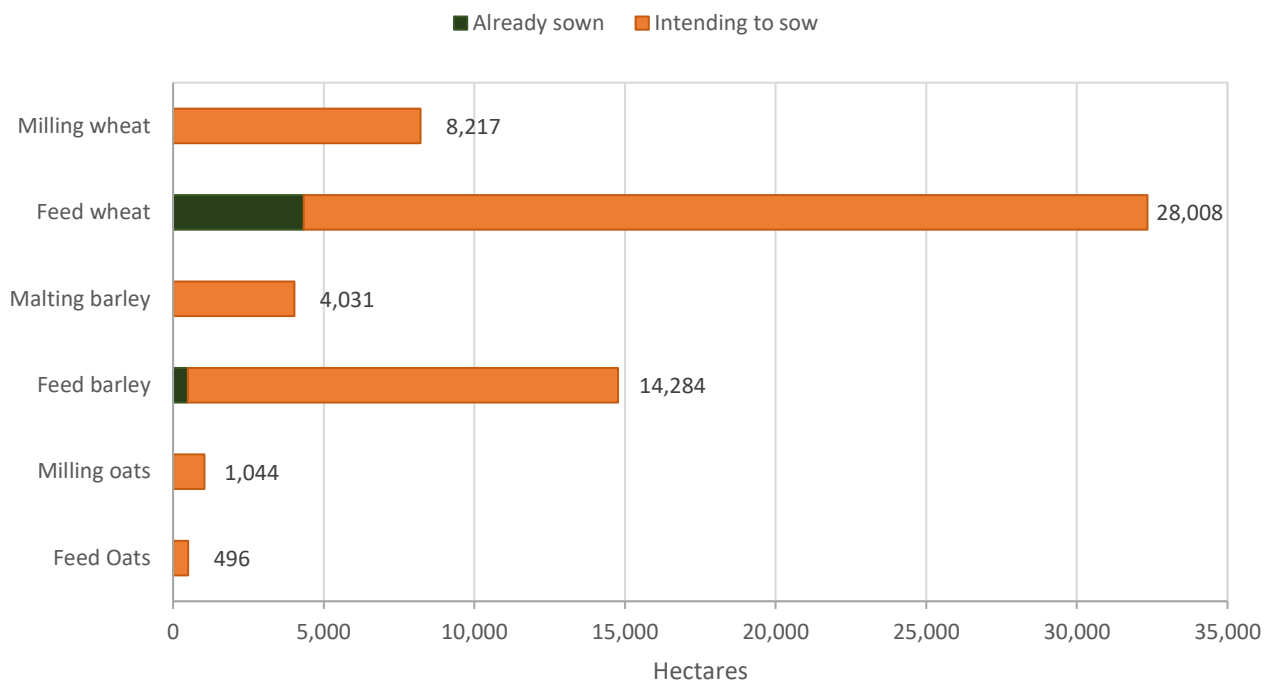


Figure 7. Estimated NZ autumn/winter 2020 sowings and sowing intentions as at 1 April, 2020.
 Note: Numbers at the end of the bars represent autumn/winter sowing intentions (spring intentions are not included). These are estimated totals derived from the survey, and have an associated margin of error.

Table 1. Estimated national figures for the 2020 harvest, plus sold and delivered tonnages, for six cereal crops as at April 1, 2020.

	Units	Milling wheat	Feed wheat	Malting barley	Feed barley	Milling oats	Feed oats	Total (all crops)
Number of farmers in the survey who harvested or will harvest this crop in 2020		48	96	34	95	11	21	139
2019 harvest								
Estimated NZ total hectares, 2019 harvest	ha	9,718	35,582	9,906	44,294	3,135	1,365	104,000
Estimated NZ total tonnes, 2019 harvest	tonnes	83,089	315,611	69,753	301,847	19,250	7,150	796,700
2020 harvest								
Estimated NZ total hectares, 2020 harvest	ha	10,967	33,554	12,518	37,572	2,151	1,327	98,090
Estimated NZ total tonnes, 2020 harvest	tonnes	109,189	371,350	87,250	285,161	12,652	7,478	873,080
Estimated NZ total hectares already harvested by 1 April, 2020	ha	10,568	33,512	12,518	34,083	798	1,018	92,497
Estimated NZ total tonnes already harvested by 1 April, 2020	tonnes	104,602	370,964	87,250	261,876	5,327	5,615	835,634
Estimated NZ total hectares yet to harvest as at 1 April, 2020	ha	399	42	0	3,489	1,353	309	5,593
Estimated NZ total tonnes yet to harvest as at 1 April, 2020	tonnes	4,587	386	0	23,286	7,325	1,862	37,446
Percentage of estimated 2020 crop tonnage which had been harvested by 1 April, 2020	%	96%	100%	100%	92%	42%	75%	96%
2020 harvest so far								
Sold under pre-harvest contract and delivered by 1 April, 2020	tonnes	5,746	51,916	30,776	47,625	207	1,203	137,473
Pre-harvest contract grain stored on farm on 1 April, 2020	tonnes	67,896	169,524	51,056	66,455	5,018	2,998	362,946
Sold at spot/free price and delivered by 1 April, 2020	tonnes	0	9,372	0	21,089	49	197	30,708
Sold at spot/free price and stored on farm on 1 April, 2020	tonnes	2,182	20,618	258	8,219	0	0	31,277
(For milling or malting only) Sold for feed by 1 April, 2020	tonnes	145	-	486	-	53	-	684
(For feed only) Used on own farm by 1 April, 2020	tonnes	-	1,555	-	737	-	49	2341
Unsold stocks on hand (2020 harvest only) on 1 April, 2020	tonnes	28,633	117,979	4,673	117,751	0	1,168	270,205
2020 yet to harvest								
Unharvested grain sold under pre-harvest contract by 1 April, 2020	tonnes	0	193	0	14,123	7,160	1,862	23,339
Unharvested grain unsold on 1 April, 2020	tonnes	4,587	193	0	9,162	165	0	14,107
Sales channels (2020 harvest): includes unharvested grain								
Sold under pre-harvest contract (total) by 1 April, 2020 (includes sold, unharvested grain)	tonnes	73,642	221,633	81,832	128,203	12,386	6,063	523,758
Sold at spot/free price (total) by 1 April, 2020 (includes sold for feed and used on farm)	tonnes	2,327	31,545	744	30,045	102	247	65,010
Delivery status of sold grain (2020 harvest): includes unharvested grain								
Sold and delivered (total) by 1 April, 2020 (includes sold for feed and used on farm)	tonnes	5,891	62,843	31,262	69,451	309	1,449	171,206
Sold and stored on farm (total) on 1 April, 2020 (includes sold, unharvested grain)	tonnes	70,078	190,334	51,314	88,797	12,178	4,860	417,562
Total sales (2020 harvest): includes unharvested grain								
Sold (of total crop) by 1 April, 2020 (includes sold for feed, used on farm, and sold, unharvested grain)	tonnes	75,969	253,177	82,577	158,248	12,488	6,310	588,768
Unsold (of total crop) on 1 April, 2020 (includes unsold, unharvested grain)	tonnes	33,220	118,173	4,673	126,913	165	1,168	284,312

Table 1 (continued).

	Units	Milling wheat	Feed wheat	Malting barley	Feed barley	Milling oats	Feed oats	Total (all crops)
Comparison of hectares and tonnes between last two harvests								
Estimated % change in hectares, 2019 to 2020 harvest	%	12.8	-5.7	26.4	-15.2	-31.4	-2.7	-5.7
Estimated % change in tonnes, 2019 to 2020 harvest	%	31.4	17.7	25.1	-5.5	-34.3	4.6	9.6
Estimated change in tonnes, 2019 to 2020 harvest	tonnes	26,100	55,739	17,497	-16,685	-6,598	327	76,380
Comparison of yields (t/ha) between last two harvests								
NZ-wide estimated yield, 2019 harvest	t/ha	8.5	8.9	7.0	6.8	6.1	5.2	7.7
NZ-wide estimated yield, 2020 harvest	t/ha	10.0	11.1	7.0	7.6	5.9	5.6	8.9
Comparison of on-farm storage (including unharvested grain) between last April and this April								
Sold but not delivered (total) on 1 April, 2019 (from 2019 harvest) (April 2019 Report)	tonnes	47,753	164,546	39,306	104,416	21,399	5,855	383,275
Sold but not delivered (total) on 1 April, 2020 (from 2020 harvest) (from above)	tonnes	70,078	190,334	51,314	88,797	12,178	4,860	417,562
Unsold (from 2019 harvest) on 1 April, 2019 (April 2019 AIMI Report)	tonnes	27,741	95,389	6,444	134,889	1,460	1,453	267,375
Unsold (from 2020 harvest) on 1 April, 2020 (as above)	tonnes	33,220	118,173	4,673	126,913	165	1,168	284,312
Change in sold, but not delivered (including unharvested grain) as at 1 April (for most recent harvest) between 2019 and 2020	tonnes	22,325	25,788	12,008	-15,619	-9,221	-994	34,287
Change in unsold as at 1 April (from most recent harvest) between 2019 and 2020	tonnes	5,479	22,784	-1,771	-7,975	-1,295	-285	16,937
Change in total grain on farm (both sold and unsold, and including unharvested grain) as at 1 April (for most recent harvest) between 2019 and 2020	tonnes	27,805	48,572	10,237	-23,595	-10,516	-1,279	51,224

Note: The comparisons in the last seven rows do not include carryover stock from the previous season (as given in Table 2).

Statistics NZ is gratefully acknowledged for supplying Provisional 2019 NZ Agricultural Production Statistics data on total hectares and tonnes for wheat, barley and oats.

In Table 1 (on the previous page), the estimated 2020 harvest tonnes of milling wheat was 31% *higher* than for the 2019 harvest (up 26,100 t). For feed wheat, the estimated 2020 harvest tonnes was 18% *higher* than for 2019 (up 55,700 t), and for feed barley, the estimated 2020 harvest tonnes was 6% *down* on 2019 (down 16,700 t). Estimated 2020 harvest tonnes of malting barley was *up* by 25% (up 17,500 t). Harvest tonnes of milling oats was *down* by 34% (down 6,600 t) and feed oats tonnage was *up* by 5% (up 300 t).

The last few rows of Table 1 (on this page) show the differences in on-farm storage between 1 April 2019 (of 2019 harvest grain) and 1 April, 2020 (of 2020 harvest grain). Unharvested grain has been included in the estimates to take account of the differing percentages of grain harvested by 1 April between the two years.

For milling wheat, feed wheat and malting barley there were increases in the tonnage of grain sold, but not delivered by 1 April between the two seasons (increases of 22,300, 25,800 and 12,000 t, respectively). For feed barley, milling oats and feed oats there were decreases in the tonnage of grain sold, but not delivered by 1 April between the two seasons (decreases of 15,600, 9,200 and 1,000 t, respectively).

In terms of unsold tonnage, there were increases in unsold tonnages as at 1 April between the two seasons for milling wheat and feed wheat, for which the unsold tonnage increased by 5,500 and 22,800 tonnes respectively. For the other four crops, there were decreases in unsold tonnage between the two seasons, with the largest decrease in unsold tonnage between 1 April 2019 and 1 April 2020 being for feed barley, with a decrease of 8,000 tonnes.

The net effect is that there were *increases* in the tonnages of grain from the most recent harvest stored on farms between 1 April, 2019 and 1 April, 2020 for milling wheat, feed wheat and malting barley (estimated increases of 27,800, 48,600 and 10,200 t, respectively), and *decreases* for feed barley, milling oats and feed oats (estimated decreases of 23,600, 10,500 and 1,300 t, respectively). These figures do not include any change in the amount of grain carried over from the previous harvest (given for 1 April, 2020 in Table 2); this change in tonnage of carry-over grain needs to be added to give the total picture.

Table 2 below shows that for all six crops, *unsold* carry-over stocks on hand on 1 April, 2020 from the previous (2019) harvest were at a low level. Feed wheat had 0.7% of the 2019 crop unsold (2,100 t), feed barley had 2.2% unsold (6,700 t), and the other four crops had no carry-over grain unsold.

In terms of *sold* carry-over grain stored on farm from the 2019 harvest, the only crops with grain sold and stored were feed wheat (2,300 t), feed barley (3,200 t) and milling oats (2,600 t).

In the last four rows, Table 2 tracks the movement of unsold grain from the 2019 harvest between 10 October, 2019 and 1 April, 2020. For milling wheat, malting barley, milling oats and feed oats, all of the grain (100%) that was unsold as at 10 October, 2019, was sold between these two dates. For feed wheat, 95% of unsold grain was sold between these two dates, and for feed barley, 88% was sold between these two dates.

When the tonnage of unsold carry-over grain is added to the unsold tonnage from the current harvest, the estimated tonnage of unsold grain as at 1 April, 2020 is 120,200 tonnes of feed wheat and 133,600 tonnes of feed barley; when summed over these two major feed crops, the total amount of unsold feed (wheat or barley) grain is estimated to be 253,800 tonnes, as compared to the amount on 1 April, 2019, of 240,300 tonnes.

Table 2. Carry-over stock on hand from the 2019 harvest, as at April 1, 2020.

	Milling wheat	Feed wheat	Malting barley	Feed barley	Milling oats	Feed oats	Total (all crops)
Number of survey farmers who harvested this crop in 2019	38	98	34	110	11	16	140
Number of survey farmers with carry-over grain from 2019 crop on 1 April, 2020	0	9	0	17	2	0	27
Estimated NZ total sold and stored on farm (2019 crop) on 1 April, 2020 (tonnes)	0	2,303	0	3,199	2,573	0	8,075
Estimated NZ total unsold stocks on hand (2019 crop) on 1 April, 2020 (tonnes)	0	2,062	0	6,686	0	0	8,747
Estimated NZ Total 2019 harvest still on farms on 1 April, 2020 (tonnes)	0	4,365	0	9,885	2,573	0	16,823
Estimated NZ unsold stocks on hand of 2019 harvest on 1 April, 2020 as a percentage of tonnes harvested in 2019	0.0%	0.7%	0.0%	2.2%	0.0%	0.0%	1.1%
Comparative figures from last year (1 April, 2019 AIMI survey)	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes
Estimated NZ total sold and stored on farm (2018 crop) on 1 April, 2019	288	2,986	0	712	4,118	265	8,368
Estimated NZ total unsold stocks on hand (2018 crop) on 1 April, 2019	0	2,796	0	7,255	44	0	10,095
Comparative figures from year before that (1 April, 2018 AIMI survey)							
Estimated NZ total sold and stored on farm (2017 crop) on 1 April, 2018	319	745	139	278	4,463	705	6,650
Estimated NZ total unsold stocks on hand (2017 crop) on 1 April, 2018	399	2,066	0	676	371	873	4,385
Comparative figures from two years before that (1 April, 2017 AIMI survey)							
Estimated NZ total sold and stored on farm (2016 crop) on 1 April, 2017	354	2,538	0	9,851	463	819	14,026
Estimated NZ total unsold stocks on hand (2016 crop) on 1 April, 2017	708	3,790	0	3,604	98	1,097	9,297
Comparative figures from three years before that (1 April, 2016 AIMI survey)							
Estimated NZ total sold and stored on farm (2015 crop) on 1 April, 2016	1,356	3,227	930	3,084	2,040	0	10,636
Estimated NZ total unsold stocks on hand (2015 crop) on 1 April, 2016	3,220	11,578	2,496	30,457	0	35	47,786
Comparative figures from four years before that (1 April, 2015 AIMI survey)							
Estimated NZ total sold and stored on farm (2014 crop) on 1 April, 2015	399	3,747	227	1,532	0	0	5,904
Estimated NZ total unsold stocks on hand (2014 crop) on 1 April, 2015	68	1,685	0	660	197	395	3,005
Comparative figures from five years before (1 April, 2014 AIMI survey)							
Estimated NZ total sold and stored on farm (2013 crop) on 1 April, 2014	5,245	17,293	0	11,656	298	0	34,492
Estimated NZ total unsold stocks on hand (2013 crop) on 1 April, 2014	415	6,927	0	375	223	722	8,662
Comparative figures from six years before (1 April, 2013 AIMI survey)							
Estimated NZ total sold and stored on farm (bumper 2012 crop) on 1 April, 2013	6,838	45,514	2,236	31,266	852	0	86,706
Estimated NZ total unsold stocks on hand (bumper 2012 crop) on 1 April, 2013	9,117	18,909	0	44,372	852	501	73,751
Change in unsold 2019 harvest grain between 10 Oct 2019 and 1 April, 2020 (based upon matched data)							
Estimated NZ total unsold stocks on hand (2019 crop) on 10 October, 2019	9,068	39,193	2,690	56,001	1,027	132	108,111
Estimated NZ total unsold stocks on hand (2019 crop) on 1 April, 2020 (as above)	0	2,062	0	6,686	0	0	8,747
Reduction in estimated NZ total unsold stocks on hand (2019 crop between 10 October, 2019 and 1 April, 2020 (tonnes))	9,068	37,131	2,690	49,316	1,027	132	99,364
As a percentage, reduction in estimated NZ total unsold stocks on hand (2019 crop between 10 October 2019 and 1 April 2020)	100%	95%	100%	88%	100%	100%	92%

Note: The matched comparison in the last section was based upon scaling up data from the exact same survey farms for the last two AIMI surveys (October, 2019 and April, 2020).

Table 3. Autumn/winter sowings and sowing intentions as at April 1, 2020 and comparisons with previous years' estimates.

	Milling wheat	Feed wheat	Malting barley	Feed barley	Milling oats	Feed oats	Total (all crops)
Number of farmers in the survey who have sown or intend to sow this crop in the autumn or winter, as at 1 April, 2020	33	83	12	47	5	7	106
Estimated NZ total hectares, 2019 harvest (autumn/winter plus spring sown crops, combined)	9,718	35,582	9,906	44,294	3,135	1,365	104,000
Estimated NZ total hectares, 2020 harvest (autumn/winter plus spring sown crops, combined)	10,967	33,554	12,518	37,572	2,151	1,327	98,090
Estimated NZ total hectares already sown, as at 1 April, 2020	0	4,336	0	485	0	0	4,821
Estimated NZ total hectares intending to sow in autumn or winter, as at 1 April, 2020	8,217	28,008	4,031	14,284	1,044	496	56,080
Estimated percentage of autumn/ winter 2020 sowings already sown by 1 April, 2020	0.0%	13.4%	0.0%	3.3%	0.0%	0.0%	7.9%
Estimated NZ total autumn/ winter 2020 sowings and/or sowing intentions as at April 1, 2020 (hectares, for harvest in 2021)	8,217	32,343	4,031	14,770	1,044	496	60,901
Comparative figures from the same time in nine previous years (1 April AIMI surveys)							
Estimated NZ total autumn/ winter 2019 sowings & intentions (ha) (from the April 2019 AIMI Survey)	6,684	34,579	2,860	17,939	270	1,387	63,719
Estimated NZ total autumn/ winter 2018 sowings & intentions (ha) (from the April 2018 AIMI Survey)	5,640	38,371	2,923	22,076	1,553	761	71,323
Estimated NZ total autumn/ winter 2017 sowings & intentions (ha) (from the April 2017 AIMI Survey)	11,330	41,751	4,306	20,949	1,036	1,262	80,634
Estimated NZ total autumn/ winter 2016 sowings & intentions (ha) (from the April 2016 AIMI Survey)	12,688	34,048	3,133	14,167	1,369	2,159	67,565
Estimated NZ total autumn/ winter 2015 sowings & intentions (ha) (from the April 2015 AIMI Survey)	8,171	32,070	1,434	26,849	909	1,658	71,092
Estimated NZ total autumn/ winter 2014 sowings & intentions (ha) (from the April 2014 AIMI Survey)	7,078	32,607	1,148	23,380	554	926	65,692
Estimated NZ total autumn/ winter 2013 sowings & intentions (ha) (from the April 2013 AIMI Survey)	8,733	34,325	1,461	27,041	1,155	719	73,434
Estimated NZ total autumn/ winter 2012 sowings & intentions (ha) (from the April 2012 AIMI Survey)	8,173	31,136	2,101	23,485	1,286	1,540	67,721
Estimated NZ total autumn/ winter 2011 sowings & intentions (ha) (from the April 2011 AIMI Survey)	9,960	32,020	1,650	24,510	1,120	430	69,690
Estimated change in autumn/ winter sowings & intentions, 2018 to 2019 (ha)	1,043	-3,792	-63	-4,137	-1,282	626	-7,605
Estimated change in autumn/ winter sowings & intentions, 2019 to 2020 (ha)	1,534	-2,235	1,171	-3,169	773	-891	-2,817
Estimated % change in autumn/ winter sowings & intentions, 2019 to 2020	23%	-6%	41%	-18%	286%	-64%	-4%

Table 3 above shows that most autumn/winter cereal crops had not been sown by 1 April, 2020. For feed wheat, 13% had been sown, and for feed barley, 3% had been sown. No milling wheat, malting barley, milling oats or feed oats had been sown on the survey farms. Therefore, the estimates in the table are primarily sowing *intentions*.

For feed wheat and feed barley, autumn/winter sowings plus sowing intentions for 2020, as at 1 April, 2020, are *lower* than at the same time last year, 1 April, 2019 (down 6% and 18% respectively, or down 2,200 and 3,200 hectares for feed wheat and feed barley respectively). Autumn/winter sowings plus sowing intentions for 2020 are *up* 23% for milling wheat (up 1,500 ha), *up* 41% for malting barley (up 1,200 ha), *up* 286% for milling oats (up 800 ha) and *down* 64% for feed oats (down 900 ha). When the autumn/winter sowings plus sowing intentions are summed over the four wheat and barley crops, the prediction is for a 4% decrease in autumn/winter sowings (a 2,700 ha decrease in area sown). This predicted decrease in area sown in the autumn/winter of 2020 changes to a decrease of 2,800 hectares when we add in the two oats crops.

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